Name: _____

at1113exam: Expand, factor, and solve quadratics (v321)

1. Expand the following expression into standard form.

$$(5x + 7)(5x - 7)$$

2. Solve the equation.

$$(5x - 3)(7x + 2) \; = \; 0$$

3. Expand the following expression into standard form.

$$(9x - 7)(2x - 5)$$

4. Expand the following expression into standard form.

$$(9x + 7)^2$$

5. Solve the equation.
$$8x^2 + 14x - 8 = 5x^2 - 3x - 2$$

6. Factor the expression.
$$x^2 + 10x + 24$$

7. Factor the expression.
$$49x^2 - 16$$

8. Solve the equation with factoring by grouping.
$$8x^2 + 12x + 10x + 15 = 0$$